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09/870,937  
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FORM PTO-1449  
(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.  
200130.514/PP-01623.002

APPLICATION NO.  
09/870,937

**INFORMATION DISCLOSURE STATEMENT**  
(Use several sheets if necessary)

APPLICANTS  
Bin Wu et al.

FILING DATE  
May 30, 2001

GROUP ART UNIT  
1641 1630

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**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA						
AB						

**FOREIGN PATENT DOCUMENTS**

FORTRANSLATION DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
DA	AC	WO 98/06437	02/19/98	<del>WIPO</del> PCT		
DA	AD	WO 99/08711	02/25/99	<del>WIPO</del> PCT		
DA	AE	WO 01/16306 A2	03/08/01	<del>WIPO</del> PCT		

**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

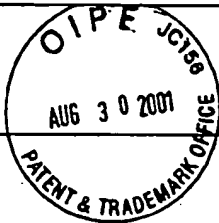
DA	AF	Banin et al., "Enhanced Phosphorylation of p53 by ATM in Response to DNA Damage," <i>Science</i> 281(5383):1674-1677, September 11, 1998.
DA	AG	Boulton et al., "Wortmannin is a Potent Inhibitor of DNA Double Strand Break but not Single Strand Break Repair in Chinese Hamster Ovary Cells," <i>Carcinogenesis (Lond.)</i> 17(11):2285-2290, November 1996.
DA	AH	Canman et. al., "Activation of the ATM Kinase by Ionizing Radiation and Phosphorylation of p53," <i>Science</i> 281(5383):1677-1679, September 11, 1998.
DA	AI	Chen et al., "Identification of Ataxia Telangiectasia Heterozygotes, a Cancer Prone Population," <i>Nature</i> 274(5670):484-486, August 3, 1978.
DA	AJ	Chernikova et al., "Wortmannin Sensitizes Mammalian Cells to Radiation by Inhibiting the DNA-dependent Protein Kinase-Mediated Rejoining of Double-strand Breaks," <i>Radiation Research</i> 151(2):159-166, February 1999.
DA	AK	Cox et al., "Tumour Suppressors, Kinases and Clamps: how p53 Regulates the Cell Cycle in Response to DNA Damage," <i>Bioessays</i> 17(6):501-508, June 1995.
DA	AL	El-Deiry "Regulation of p53 Downstream Genes," <i>Seminars in Cancer Biology</i> 8(5):345-357, 1998.
DA	AM	Elledge et al., "A Question of Balance: The Role of Cyclin-Kinase Inhibitors in Development and Tumorigenesis," <i>Trends in Cell Biology</i> 6:388-393, October 1996
DA	AN	Fiscella et al., "Mutation of the Serine 15 Phosphorylation Site of Human p53 Reduces the Ability of p53 to Inhibit Cell Cycle Progression," <i>Oncogene</i> 8(6):1519-1528, June 1993.

EXAMINER  
*David Jambertson*

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BA						
BB						

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
BC					
BD					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DS	BE	Haupt et al., "Mdm2 Promotes the Rapid Degradation of p53," <i>Nature</i> 387(6630):296-299, May 15, 1997.
DS	BF	Hendry et al., "P53 Deficiency Produces Fewer Regenerating Spermatogenic Tubules after Irradiation," <i>International J. of Radiation Biology</i> 70(6):677-682, December 1996.
DS	BG	Hosoi et al., "A Phosphatidylinositol 3-Kinase Inhibitor Wortmannin Induces Radioresistant DNA Synthesis and Sensitizes Cells to Bleomycin and Ionizing Radiation," <i>International J. of Cancer</i> 78(5):642-647, November 23, 1998.
DS	BH	Huang et al., "Lipitoids—novel Cationic Lipids for Cellular Delivery of Plasmid DNA <i>in vitro</i> ," <i>Chemistry &amp; Biology</i> 5(6):345-354, June 1998.
DS	BI	Kastan et al., "A Mammalian Cell Cycle Checkpoint Pathway Utilizing p53 and GADD45 is Defective in Ataxia-Telangiectasia," <i>Cell</i> 71(4):587-597, November 13, 1992.
DS	BJ	Keith et al., "PIK-related Kinases: DNA Repair, Recombination, and Cell Cycle Checkpoints," <i>Science</i> 270(5233):50-51, October 6, 1995.
DS	BK	Kim et al., "Substrate Specificities and Identification of Putative Substrates of ATM Kinase Family Members," <i>J. Biol. Chem.</i> 274(53):37538-37543, December 31, 1999.
DS	BL	Komarova et al., "Could p53 be a Target for Therapeutic Suppression?," <i>Semin. Cancer Biol.</i> 8(5):389-400, 1998.
DS	BM	Komarova et al., "Transgenic Mice with p53-Responsive lacZ: p53 Activity Varies Dramatically During Normal Development and Determines Radiation and Drug Sensitivity <i>in vivo</i> ," <i>EMBO J.</i> 16(6):1391-1400, 1997

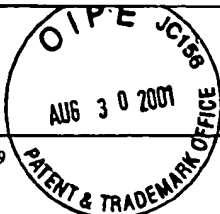
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David Jambert

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	CA				X	X	
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## FOREIGN PATENT DOCUMENTS

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					YES	NO
	CD					
	CE					

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	CF	Kubbutat et al., "Regulation of Mdm2-directed Degradation by the C Terminus of p53," <i>Molecular and Cellular Biology</i> 18(10):5690-5698, October 1998.
	CG	Kubbutat et al., "Regulation of p53 Stability by Mdm2," <i>Nature</i> 387(6630):299-303, May 15, 1997.
	CH	Lehmann et al., "Miscellaneous Observations on DNA Repair in Ataxia-Telangiectasia," in Bridges and Harnden (eds.), <i>Ataxia-Telangiectasia - A Cellular and Molecular Link Between Cancer, Neuropathology and Immune Deficiency</i> , John Wiley and Sons, New York, 1982, pp. 347-353.
	CI	Lowe et al., "p53-Dependent Apoptosis Modulates the Cytotoxicity of Anticancer Agents," <i>Cell</i> 74(6):957-967, September 24, 1993.
	CJ	Lu et al., "Differential Induction of Transcriptionally Active p53 Following UV or Ionizing Radiation: Defects in Chromosome Instability Syndromes?," <i>Cell</i> 75(4):765-778, November 19, 1993.
	CK	Matsuoka et al., "Linkage of ATM to Cell Cycle Regulation by the Chk2 Protein Kinase," <i>Science</i> 282(5395):1893-1897, December 4, 1998.
	CL	Momand et al., "The <i>mdm-2</i> Oncogene Product Forms a Complex with the p53 Protein and Inhibits p53-Mediated Transactivation," <i>Cell</i> 69(7):1237-1245, June 26, 1992.
	CM	Nagase et al., "Prediction of the Coding Sequences of Unidentified Human Genes. V. The Coding Sequences of 40 New Genes (KIAA0161-KIAA0200) Deduced by Analysis of cDNA Clones from Human Cell Line KG-1," <i>DNA Research</i> 3(1):17-24, February 29, 1996.

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				YES	NO
DB					
DC					

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DD	Oliner et al., "Oncoprotein MDM2 Conceals the Activation Domain of Tumour Suppressor p53," <i>Nature</i> 362(6423):857-860, April 29, 1993.
DE	Powis et al., "Wortmannin, a Potent and Selective Inhibitor of Phosphatidylinositol-3-Kinase," <i>Cancer Research</i> 54(9):2419-2423, May 1, 1994.
DF	Price et al., "The Phosphatidylinositol 3-Kinase Inhibitor Wortmannin Sensitizes Murine Fibroblasts and Human Tumor Cells to Radiation and Blocks Induction of p53 Following DNA Damage," <i>Cancer Research</i> 56(2):246-250, January 15, 1996.
DG	Rogel et al., "p53 Cellular Tumor Antigen: Analysis of mRNA Levels in Normal Adult Tissues, Embryos, and Tumors," <i>Molecular and Cellular Biology</i> 5(10):2851-2855, October 1985.
DH	Rosenzweig et al., "Radiosensitization of Human Tumor Cells by the Phosphatidylinositol 3-Kinase Inhibitors Wortmannin and LY294002 Correlates with Inhibition of DNA-Dependent Protein Kinase and Prolonged G2-M Delay," <i>Clinical Cancer Research</i> 3(7):1149-1156, July 1997.
DI	Savitsky et al., "A Single Ataxia Telangiectasia Gene with a Product Similar to PI-3 Kinase," <i>Science</i> 268(5218):1749-1753, June 23, 1995.
DJ	Sarkaria et al., "Inhibition of Phosphoinositide 3-Kinase Related Kinases by the Radiosensitizing Agent Wortmannin," <i>Cancer Research</i> 58(19):4375-4382, October 1, 1998.
DK	Schmid et al., "Expression of p53 During Mouse Embryogenesis," <i>Development</i> 113(3):857-865, November 1991.
DL	Schwartz et al., "Expression of p53 Protein in Spermatogenesis is Confined to the Tetraploid Pachytene Primary Spermatocytes," <i>Oncogene</i> 8(6):1487-1494, June 1993.

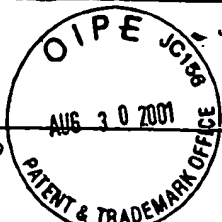
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EA						
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ED					
EE					

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DL	EF	Sherr, "Cancer Cell Cycles," <i>Science</i> 274(5293):1672-1677, December 6, 1996.
DL	EG	Shieh et al., "DNA Damage-Induced Phosphorylation of p53 Alleviates Inhibition by MDM2," <i>Cell</i> 91(3):325-334, October 31, 1997.
DL	EH	Siliciano et al., "DNA Damage Induces Phosphorylation of the Amino Terminus of p53," <i>Genes &amp; Development</i> 11:3471-3481, 1997.
DL	EI	Tron et al., "p53-Regulated Apoptosis is Differentiation Dependent in Ultraviolet B-Irradiated Mouse Keratinocytes," <i>American J. of Pathology</i> 153(2):579-585, August 1998.
DL	EJ	Wang et al., "Loss of p21 Increases Sensitivity to Ionizing Radiation and Delays the Onset of Lymphoma in <i>atm</i> -Deficient Mice," <i>P.N.A.S. USA</i> 94:14590-14595, December 1997.
DL	EK	Weinert et al., "The <i>RAD9</i> Gene Controls the Cell Cycle Response to DNA Damage in <i>Saccharomyces Cerevisiae</i> ," <i>Science</i> 241(4863):317-322, July 15, 1988.
DL	EL	Westpahl et al., " <i>atm</i> and <i>p53</i> Cooperate in Apoptosis and Suppression of Tumorigenesis, but not in Resistance to Acute Radiation Toxicity," <i>Nature Genetics</i> 16(4):397-401, August 1997.
DL	EM	Wymann et al., "Wortmannin Inactivates Phosphoinositide 3-Kinase by Covalent Modification of Lys-802, a Residue Involved in the Phosphate Transfer Reaction," <i>Molecular and Cellular Biology</i> 16(4):1722-1733, April 1996.

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